WHAT IS CLAIMED IS:

1 1.   A method for wireless communication for non-latency-dependent data, the method

2   comprising:

3   (a)   receiving data for transmission to a base station;

4   (b)   determining whether the data is appropriate for transmission over a digital control

5   channel; and

6   (c)   if the data is not appropriate for transmission over a digital control channel,

7   transmitting the data over a traffic channel.

1 2.   The method of claim 1, wherein said determining includes determining whether the data

2   is less than a predetermined size.

1 3.   A method for wireless communication for non-latency-dependent data, the method

2   comprising:

3   (a)·   receiving data for transmission to a base station;

4   (b)   determining whether the data is appropriate for transmission over a digital control

5   channel;

6   (c)   if the data is appropriate for transmission over a digital control channel,

7   determining whether network conditions are favorable for transmission over a

8   digital control channel; and

9   (d)   if network conditions are favorable, transmitting the data over a digital control

10   channel to the base station.

1 4.   The method of claim 3, further comprising the steps of:

2   (e)   queuing the data for future transmission if network conditions are not favorable

3   for transmitting the data; and

4   (f)   repeating step (c) until network conditions are favorable for transmitting data.

1 5.   The method of claim 4, wherein said determining whether the data is appropriate for

2   transmission over a digital control channel includes determining whether the data is less

3   than a predetermined size.

1 6.   The method of claim 5, wherein conditions favorable for transmission include the

2   existence of a slot in the digital control channel into which the data can be placed for

3   transmission.

1 7.   A method for wireless communication for non-latency-dependent data, the method

2   comprising:

3   (a)   receiving data for transmission to a base station;

4   (b)   determining whether the data is appropriate for transmission over a digital control

5   channel;

6   (c)   if the data is appropriate for transmission over a digital control channel, queuing

7   the received data for transmission;

8   (c)   monitoring network conditions for conditions favorable for transmission; and

9   (d)   transmitting the data over a digital central channel when network conditions are

10   favorable for transmission.

1 8.   The method of claim 7, wherein the conditions favorable for transmission include the

2   existence of a slot in the digital control channel into which the data can be placed for

3   transmission.

1 9. An apparatus for transmitting non-latency-dependent data over a wireless system, the

2   apparatus comprising:

.3   (a)   a processor; and

4   (b)   a memory coupled to said processor, said memory storing instructions adapted to

5   be executed on said processor, the instructions including:

.6   (i)   receiving data for transmission to a base station;

7   (ii)   determining whether the data is appropriate for transmission over a digital

8   control channel;

9   (iii) if the data is appropriate for transmission over a digital control channel,

10   determining whether network conditions are favorable for transmission

11   over a digital control channel; and

12   (iv)   if network conditions are favorable, transmitting the data over a digital

13   control channel to the base station.

1 10. The apparatus of claim 9, said memory storing further instructions adapted to be executed

2   on said processor, said further instructions including:

3   (v)   queuing the data for future transmission if network conditions are not

4   favorable for transmitting the data; and

5   (vi)   repeating step (iii) until network conditions are favorable for transmitting

6   data.

1 11. The apparatus of claim 10, wherein said determining whether the data is appropriate for

2   transmission over a digital control channel includes determining whether the data is less

3   than a predetermined size.

1 12. The apparatus of claim 11, wherein conditions favorable for transmission include the

2   existence of a slot in the digital control channel into which the data can be placed for

3   transmission.

13. An apparatus for wireless communication for non-latency-dependent data, the apparatus comprising:

(a) a processor; and

(b) a memory coupled to said processor, said memory storing instructions adapted to be executed on said processor, said instructions including:

(i) receiving data for transmission to a base station;

(ii) determining whether the data is appropriate for transmission over a digital control channel;

(iii) if the data is appropriate for transmission over a digital control channel, queuing the received data for transmission;

(iv) monitoring network conditions for conditions favorable for transmission; and

(v) transmitting the data over a digital central channel when network conditions are favorable for transmission.

14. The apparatus of claim 13, wherein the conditions favorable for transmission include the existence of a slot in the digital control channel into which the data can be placed for transmission.

15. A medium for wireless communication of non-latency-dependent data, the medium storing instructions adapted to be executed on a processor, the instructions comprising:

(a) receiving data for transmission to a base station;

(b) determining whether the data is appropriate for transmission over a digital control channel;

(c) if the data is appropriate for transmission over a digital control channel, determining whether network conditions are favorable for transmission over a digital control channel; and

(d) if network conditions are favorable, transmitting the data over a digital control channel to the base station.

16. The medium of claim 15, said medium storing further instructions adapted to be executed on a processor, the further instructions comprising:

(e) queuing the data for future transmission if network conditions are not favorable for transmitting the data; and

(f) repeating step (c) until network conditions are favorable for transmitting data.

17. The medium of claim 16, wherein said determining whether the data is appropriate for transmission over a digital control channel includes determining whether the data is less than a predetermined size.

18. The medium of claim 17, wherein medium conditions favorable for transmission include the existence of a slot in the digital control channel into which the data can be placed for transmission.

19. A medium for wireless communication for non-latency-dependent data, the medium storing instructions adapted to be executed a processor, the instructions comprising:

(a) receiving data for transmission to a base station;

(b) determining whether the data is appropriate for transmission over a digital control channel;

(c) if the data is appropriate for transmission over a digital control channel, queuing the received data for transmission;

(c) monitoring network conditions for conditions favorable for transmission; and

(d) transmitting the data over a digital central channel when network conditions are favorable for transmission.

1   20.   The medium of claim 19, wherein the conditions favorable for transmission include the

2   existence of a slot in the digital control channel into which the data can be placed for

3   transmission.